

**Position:** M.S. Student Assistantship – Endangered Tidewater Goby eDNA Research



**Closing Date:** Open until filled.

**Location:** Cal Poly Humboldt, Department of Fisheries Biology, Arcata, California, 95519

**Description:** We seek to fill a M.S. Student Assistantship focused on the development of standardized methods for monitoring endangered tidewater goby using environmental DNA (eDNA) in water samples. This project has two primary purposes: (1) evaluate current eDNA monitoring protocols for tidewater goby to ensure best practices in the field are being employed, including evaluation of such items as water filtration methods and filter preservation methods, and (2) Development of a standard survey protocol for tidewater goby monitoring for use in regulatory frameworks. This research is one part of a larger collaborative project and requires routine meetings and collaborations with staff from the California Department of Transportation, California Department of Fish and Wildlife, Washington State University, and United States Fish and Wildlife Service.

The Student Assistant, while working closely with project collaborators, will be responsible for experimental design, conducting experiments, data collection, data analysis, and report writing. The Research Assistant will be involved in field collection of water samples, laboratory analysis, DNA extraction, and DNA analysis using a variety of techniques such as quantitative PCR and metabarcoding.

#### Qualifications:

- B.S. in fisheries, natural resources, marine biology, biology, ecology, statistics, or related fields.
- Qualified for acceptance to M.S. program in Natural Resources - Fisheries Concentration at Cal Poly Humboldt.

#### Preferred Qualifications:

- Research experience
- Strong writing and communication skills
- Genetics laboratory experience
- Strong quantitative and statistical skills; experience with R (or demonstrated capacity to learn)

The selected student will enroll in the [Natural Resources graduate program](#) at Cal Poly Humboldt and work to obtain their M.S. degree within the [Fisheries Biology Department](#).

The student would ideally start summer 2024.

3 years at \$27,000 per year.

The student will be advised by Dr. Andrew P. Kinziger, a faculty in the Department of Fisheries Biology, Cal Poly Humboldt.

#### **About Cal Poly Humboldt**

Cal Poly Humboldt is a small to medium sized university located in a relatively remote area of Northern California. It sits near Humboldt Bay, 5 minutes from the beautiful coastline, nestled by majestic redwood forests. The university has numerous facilities, including the Telonicher Marine Lab located in Trinidad (15 minutes from the main campus). Learn more about the university and location [here](#).

Cal Poly Humboldt is a Hispanic-Serving Institution (HSI) that strives to foster an equitable and inclusive community that supports our students of diverse backgrounds. Cal Poly Humboldt is a Title IX/Affirmative Action/Equal Opportunity Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, age, sex including sexual orientation and gender identity, national origin, disability, protected Veteran Status, or any other legally protected status. More information about Cal Poly Humboldt SPF's Equal Employment Opportunity hiring can be found [here](#).

#### **Instructions**

Please email a cover letter, resume or CV, transcripts (unofficial are acceptable; official are preferred), and contact information of 3 references to [Andrew.Kinziger@humboldt.edu](mailto:Andrew.Kinziger@humboldt.edu). If

available, applicants should also submit their GRE scores. If requested, you will send a formal application to the Graduate School.

**Point of Contact**

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